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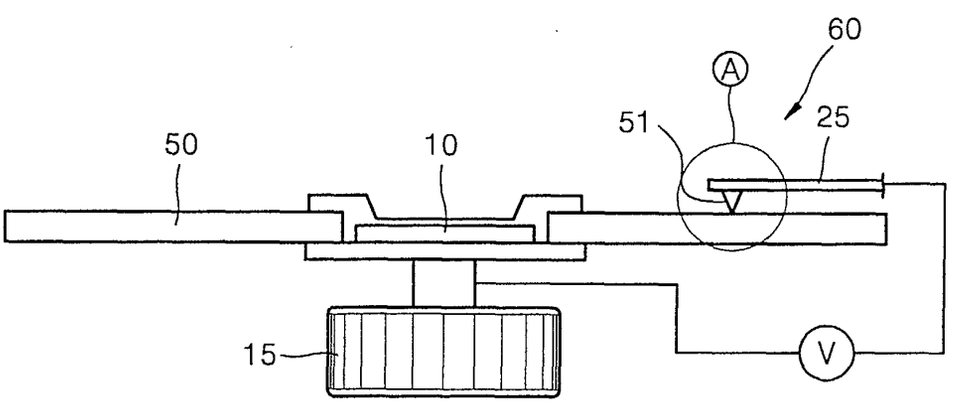
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(54) Information storage apparatus using charge

(57) There is provided an information storage apparatus including a recording medium and a head. The recording medium (50) has an electrode layer (57), a magnetic layer (55) that is stacked on the electrode layer, and a wear-resistant thin film (53) that is stacked on the magnetic layer. The head (60) has a conductive probe (51) for injecting charge to record information and sensing the charge injected into the recording medium to reproduce information in a state that the conductive probe contacts the recording medium. A magnetic medium, which is coated with a wear-resistant thin film, stores charges to record information and reproduce information using an electrostatic force. Thus, it is possible to stably store highly integrated information. Also, a probe contacts a recording medium to record and reproduce information at a high speed. Thus, sensitivity and resolution can be improved.

FIG. 5A



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EUROPEAN SEARCH REPORT

Application Number
EP 02 25 5699

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The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
The Hague	25 October 2005	Fux, J

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